



EXPRESS MAIL NO. EV719380755US

Sheet 1 of 5

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO.	APPLICATION NO.
		890050.436	10/637,407
		APPLICANTS	
		Masaki Aoshima et al.	
FILING DATE August 7, 2003		GROUP ART UNIT	1756

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
u	AA	5,185,733	02/09/93	Finkelstein et al.	369	54	
u	AB	5,328,813	07/12/94	Strandjord et al.	430	321	
u	AC	5,511,057	04/23/96	Holtslag et al.	369	94	
u	AD	5,560,998	10/01/96	Oyamatsu et al.	428	694 ML	
u	AE	5,583,643	12/10/96	Gass et al.	356	445	
u	AF	5,818,808	10/06/98	Takada et al.	369	116	
u	AG	5,875,169	02/23/99	Hatwar	369	272	
u	AH	5,949,747	09/07/99	Miyashita et al.	369	54	
u	AI	5,958,649	09/28/99	Hirotsune et al.	430	270.13	
u	AJ	6,187,406	02/13/01	Ichihara et al.	428	64.1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
u	AK	62-16193	01/24/87	JP (+ Abstract in English)	
u	AL	62-28941	02/06/87	JP (+ Abstract in English)	
u	AM	37 41 910 A1	06/23/88	DE (+ Abstract in English)	
u	AN	63-299984	12/07/88	JP (+ Abstract in English)	
u	AO	1-270528	10/27/89	JP (+ Abstract in English)	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	AP	Kikukawa, T., et al., "Rigid Bubble Pit Formation and Huge Signal Enhancement in Super-Resolution Near-Field Structure Disk with Platinum-oxide Layer," Applied Physics Letters 81(25):4697-4699.
	AQ	Kim, J., et al., "50nm Signal Writing and Retrieve by PtOx Type S-RENS Disk in Blue Laser Optical System," Extended Abstracts, 63rd Meeting The Japan Society of Applied Physics, Abstract No. 27a-YD-4, p. 1005, September 2002.

EXAMINER

DATE CONSIDERED

1/9/06

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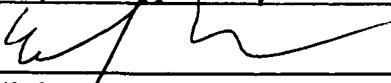
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
u	BA	6,221,455	04/24/01	Yasuda et al	428	64.1	
u	BB	6,278,680	08/21/01	Miyauchi et al.	369	112.01	
u	BC	6,404,712	06/11/02	Lee et al.	369	47.53	
u	BD	6,404,713	06/11/02	Ueki	369	47.53	
u	BE	6,416,837	07/09/02	Kojima et al.	428	64.1	
u	BF	6,511,788	01/28/03	Yasuda et al.	430	270.13	
u	BG	6,611,481	08/26/03	Koishi et al.	369	47.53	
u	BH	6,660,451	12/09/03	Sakaue et al.	430	270.13	
u	BI	6,670,014	12/30/03	Nishihara et al.	428	64.1	
u	BJ	6,791,926	09/14/04	Furumiya et al.	369	53.13	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
u	BK	3-5929	01/11/91	JP (+ Abstract in English)	
u	BL	3-49054	03/01/91	JP (+ Abstract in English)	
u	BM	4-298389	10/22/92	JP (+ Abstract in English)	
u	BN	5-159358	06/25/93	JP (+ Abstract in English)	
u	BO	5-342631	12/24/93	JP (+ Abstract in English)	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	BP	Kim, J., et al., "Random Pattern Signal Characteristics of Super-RENS Disk at Blue Laser System," Technical Digest of Optical Data Storage Topical Meeting, pp. 273-275, 2004.
u	BQ	Kim, J., et al., "Signal Characteristics of Super-RENS Disk at Blue Laser System," Technical Digest of International Symposium on Optical Memory, Fr-J-01:264-265, 2003.
	BR	Kim, J., et al., "Super Resolution by Elliptical Bubble Formation with PtO _x and AgInSbTe Layers," Applied Physics Letters, 83(9):1701-1703, September 1, 2003.

EXAMINER		DATE CONSIDERED
		11/2/04

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
u	CA	6,929,840	08/16/05	Hosoda et al.	428	64.1	
u	CB	7,018,694	03/28/06	Hosoda et al.	428	64.1	
u	CC	2001/0017833	08/30/01	Yamada et al.	369	59.11	
u	CD	2001/0041304	11/15/01	Uno et al.	430	270.13	
u	CE	2002/0168587	11/14/02	Sakaue et al.	430	270.13	
u	CF	2003/0081523	05/01/03	Miyagawa et al.	369	59.11	
u	CG	2003/0228539	12/11/03	Hosoda et al.	430	270.13	
u	CH	2004/0013069	01/22/04	Uno et al.	369	59.11	
u	CI	2004/0139459	07/15/04	Mishima et al.	720	718	
u	CJ	2004/0174796	09/09/04	Mizushima et al.	369	94	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
u	CK	5-342635	12/24/93	JP (+ Abstract in English)	
u	CL	6-243507	09/02/94	JP (+ Abstract in English)	
u	CM	6-262854	09/20/94	JP (+ Abstract in English)	
u	CN	6-274922	09/30/94	JP (+ Abstract in English)	
u	CO	7-235465	09/05/95	JP (+ Abstract in English)	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	CP	Narumi, K. et al., "45GB Rewritable Dual-Layer Phase-Change Optical Disk With A Transmittance Balanced Structure", Technical Digest, International Symposium on Optical Memory 2001, Grand Hotel, Taipei, Taiwan, October 16-19, 2001, pages 202 & 203.
	CQ	NIkkei Electronics, May 12, 2003, pp. 119-133.

EXAMINER	<i>u</i>	DATE CONSIDERED	<i>11/9/06</i>
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
lu	DA	2004/0190435	09/30/04	Hosoda et al.	369	283	
lu	DB	2005/0094526	05/05/05	Kakiuchi et al.	369	59.11	
lu	DC	2005/0243676	11/03/05	Kato et al.	369	59.11	
lu	DD	2006/0013111	01/19/06	Inoue et al.	369	125	
	DE						
	DF						
	DG						
	DH						
	DI						
	DJ						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
lu	DK	8-124165	05/17/96	JP (+ Abstract in English)	
lu	DL	9-7176	01/10/97	JP (+ Abstract in English)	
lu	DM	2000-187842	07/04/00	JP (+ Abstract in English)	
lu	DN	2000-222764	08/11/00	JP (+ Abstract in English)	
lu	DO	2000-285509	10/13/00	JP (+ Abstract in English)	
lu	DP	2000-297365	10/24/00	JP (+ Abstract in English)	
lu	DQ	2001-222819	08/17/01	JP (+ Abstract in English)	
lu	DR	2001-322357	11/20/01	JP (+ Abstract in English)	
lu	DS	2001-344823	12/14/01	JP (+ Abstract in English)	
lu	DT	WO 02/29787 A1	04/11/02	WIPO	

EXAMINER	<i>lu</i>	DATE CONSIDERED	<i>11/9/06</i>
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EA						
EB						
EC						
ED						
EE						
EF						
EG						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
U EK	1 215 669 A2	06/19/02	EP		
U EL	1365108 A	08/21/02	CN (+ Abstract in English)		
U EM	2002-329348	11/15/02	JP (+ Abstract in English)		
U EN	2003-13201	01/15/03	JP (+ Abstract in English)		
U EO	2003-178448	06/21/03	JP (+ Abstract in English)		
U EP	2003-260874	09/16/03	JP (+ Abstract in English)		
U EQ	2003-326848	11/19/03	JP (+ Abstract in English)		
U ER	2004-20822	01/22/04	JP (+ Abstract in English)		
U ES	2004-30891	01/29/04	JP (+ Abstract in English)		
U ET	2004-39177	02/05/04	JP (+ Abstract in English)		
U EU	2004-87073	03/18/04	JP (+ Abstract in English)		
U EV	2004-111004	04/08/04	JP (+ Abstract in English)		
U EW	2004-158134	06/03/04	JP (+ Abstract in English)		

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11/9/02

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

ATTY. DOCKET NO.
890050.436
APPLICATION NO.
10/637,407
APPLICANTS
Masaki Aoshima et al.
FILING DATE
August 7, 2003
GROUP ART UNIT
2655

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
m	AA 5,194,363	03/16/93	Yoshioka et al.	430	271	
m	AB 5,325,351	06/28/94	Uchiyama et al.	369	275.1	
m	AC 5,414,451	05/09/95	Sugiyama et al.	347	258	
u	AD 5,948,496	09/07/99	Kinoshita et al.	428	64.1	
m	AE 6,231,945	05/15/01	Miyamoto et al.	428	64.1	
m	AF 6,266,299	07/24/01	Oshima et al.	369	13	
m	AG 6,355,326	03/12/02	Lee et al.	428	64.1	
m	AH 6,449,239	09/10/02	Uno et al.	369	275.1	
m	AI 6,636,477	10/21/03	Miyamoto et al.	369	286	
m	AJ 6,656,559	12/02/03	Mizushima et al.	428	64.1	
m	AK 6,788,635	09/07/04	Aratani et al.	369	100	
m	AL 6,805,935	10/19/04	Ashida et al.	428	64.1	
m	AM 6,807,142	10/19/04	Nagata et al.	369	275.2	
m	AN 6,841,218	01/11/05	Hosoda et al.	428	64.1	
m	AO 6,982,111	01/03/06	Mizushima et al.	428	64.1	
m	AP 7,002,887	02/21/06	Kakiuchi et al.	369	59.12	
m	AQ 2001/0021160	09/13/01	Shuy et al.	369	100	
m	AR 2002/0060979	05/23/02	Tsukuda et al.	369	275.4	
m	AS 2003/0086359	05/08/03	Lee et al.	369	275.3	
m	AT 2003/0165111	09/04/03	Flynn	369	288	
m	AU 2003/0224215	12/04/03	Kondo et al.	428	694	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AV

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11/8/06

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FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			APPLICANTS Masaki Aoshima et al.	
			FILING DATE August 7, 2003	GROUP ART UNIT 2655 / 752

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
an	BA	2004/0001418	01/01/04	Shinotsuka et al.	369	111	
an	BB	2004/0018334	01/29/04	Nee	428	64.1	
an	BC	2004/0027973	02/12/04	Aoshima et al.	369	121	
an	BD	2004/0038080	02/26/04	Inoue et al.	428	694 SC	
an	BE	2004/0076907	04/22/04	Inoue et al.	430	270.12	
an	BF	2004/0110086	06/10/04	Kakiuchi et al.	430	270.12	
an	BG	2004/0174804	09/09/04	Kakiuchi et al.	369	275.4	
an	BH	2004/0191685	09/30/04	Kakiuchi et al.	430	270.11	
an	BI	2004/0241581	12/02/04	Kakiuchi et al.	430	270.12	
an	BJ	2005/0018590	01/27/05	Inoue et al.	369	275.2	
an	BK	2005/0018591	01/27/05	Inoue et al.	369	275.2	
an	BL	2005/0018592	01/27/05	Inoue et al.	369	275.2	
an	BM	2005/0047301	03/03/05	Inoue et al.	369	94	
an	BN	2005/0047302	03/03/05	Inoue et al.	369	94	
an	BO	2005/0047303	03/03/05	Inoue et al.	369	94	
an	BP	2005/0047304	03/03/05	Inoue et al.	369	94	
an	BQ	2005/0047305	03/03/05	Inoue et al.	369	94	
an	BR	2005/0048249	03/03/05	Inoue et al.	428	64.4	
an	BS	2005/0052194	03/10/05	Kister et al.	324	755	
an	BT	2005/0074306	04/07/05	Montresor	409	179	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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